

A

FIGURE 1

Nucleotide

ATGAAGAGCGTCTTGCTGCTGACCAACGCTCCTCGTGCCCTGCACACCTGGTGGCCGCTGGAGCAA
TAATTATGCGGTGGACTGCCCTCAACACTGTGACAGCAGTGAAGTCAAAAGCAGCCCGCGCTGCA
AGAGACAGTGCTCGACGACTGTGGCTGCTGCCGAGTGTGCGCTGCAGGGCGGGAGAAAAC TTGC
TACCGCACAGTCTCAGGCATGGATGGCATGAAGTGTGGCCCGGGCTGAGGTGTACGCCCTTCTAA
TGGGAGGATCCTTTTGGTGAAGAGTTTGGTATCTGCAAAAGACTGTCCCTACGGCACCTTCGGGA
TGGATTGCAGAGAGACCTGCAACTGCCAGTCAGGCATCTGTGACAGGGGACGGGAAAATGCCCTG
AAATTCCCCCTTCTTCCAAATATTCAGTAACCAAGTCTTCCAAACAGATTTGTTTCTCTCACGGAGCA
TGACATGGCATCTGGAGATGGCAATATTTGTGAGAGAAGAGTTGTGAAAGAGAAATGCTGCCCGGT
CTCCCGTAATGAGGAAATGGTTAAATCCACGCTGA SEQ ID NO:1

Protein

MKSVLLLTLLVPAHLVAAWSNNYAVDCPQHCDSSSECKSSPRCKRTVLDGCCRVCAGRGETC
YRTVSGMDGMKCGPLRCQPSNGEDPPFGEFFGICKDCPYGTFGMDCRETNCQSGICDRGTGKCL
KFPFFQYSVTKSSNRFVSLTEHDMASGDGNIVREEVVKENAAGSPVMRKKWLNPR

SEQ ID NO:2

Insulin Growth Factor Binding Domain Homology

B

ESM-1 26 VDCPQHCDSSSECKSSPR--CTRTVLDDCGCCRVCAAGRGETCYRTVSQMDGMKCGPLRCQPSNGED 90 SEQ ID NO:3
IGFBD 1 ARCP-PCSPARCPPEFPGCALVWLDCGCCCPVCARQEGEPC-----GVYTPPCAPGLRCDPPGEE 61 SEQ ID NO:4

FIGURE 2

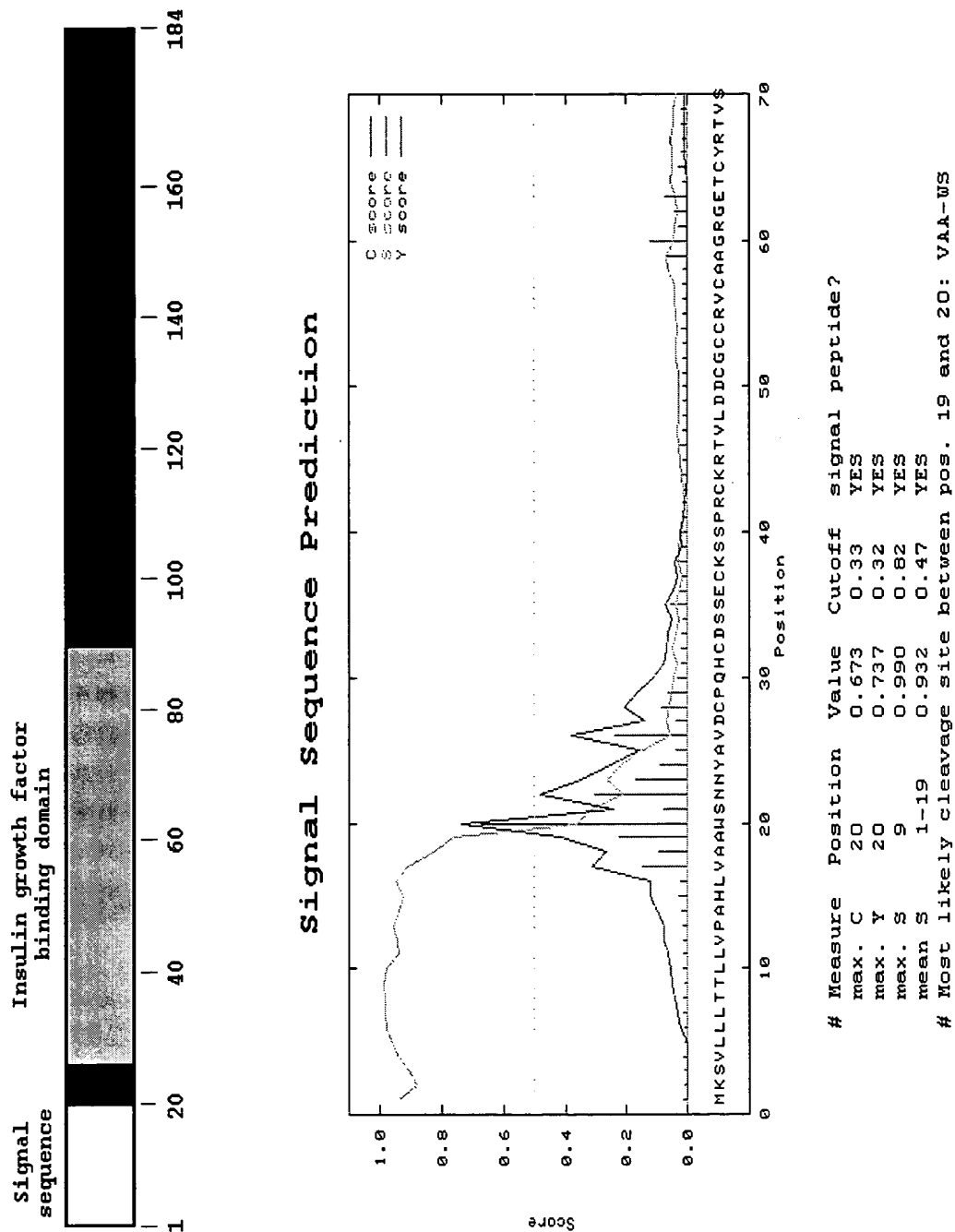
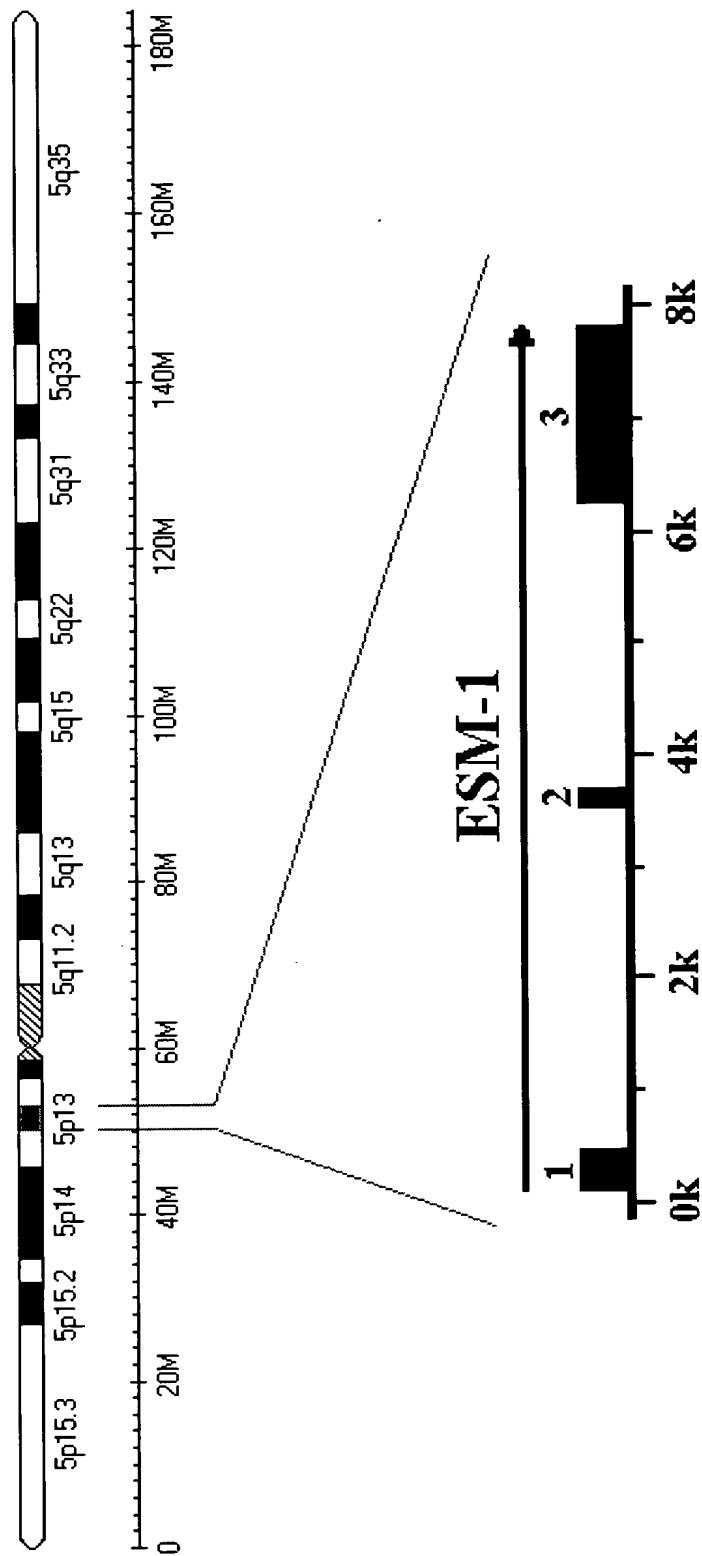


FIGURE 3

Rat_ESM1	WKSLLLLTLLPLHLGMAWSAKYAVDCPEHCDMTECRSSLRCKRTVLDDCCCCQVCAAGCPGTCYRTVSGMDGV	75
Mouse_ESM1	WKSLLLLTLLVPLHLGMAWSAKYAVDCPEHCDKTECRSSLRCKRTVLDDCCCCQVCAAGCPGTCYRTVSGMDGV	75
Human_ESM1	WKSLLLTLLVPAHLVAWSNNYAVDCPQHCDSECESSPRCKRTVLDDCCCGRVCAAGCGTCYRTVSGMDGV	75
Rat_ESM1	KCGPGLKCHFYSSEDDDFEDEFCCKDCPYCTFGMDCKETCNCQSGICDRVTGRCCLDFFPFFQYAAAKSPERTSASQ	150
Mouse_ESM1	KCGPGLKCHFYSSEDDDFCGDEFCICKDCPYCTFGMCKETCNCQSGICDRVTGRCCLDFFPFFQYAAAKSPERTSASH	150
Human_ESM1	KCGPGLCCQPSNGEDPFCEEFEGICKDCPYCTFGMDCKETCNCQSGICDRVTGRCCLDFFPFFQYAAAKSPERTSASH	149
Rat_ESM1	TERDAASGDCGNAVREKEICDRMAARPSVM-KQLMNP	184
Mouse_ESM1	TERDSASGDCGNAVREKEICGMAARPSVM-KQLMNP	184
Human_ESM1	TERDMASGDCGNIVREEVKEHAAGSPVVRKQLMNP	184
	SEQ ID NO:5	
	SEQ ID NO:6	
	SEQ ID NO:2	

FIGURE 4
Chromosome 5



Exon	ESM-1		
	acceptor site	donor site	exon size
1	CAGCT	CAAAAGgtaaa	378
2	cccagACTGT	CACGGgttaag	150
3	ttcagAGCAT	GATAC	1568

FIGURE 5

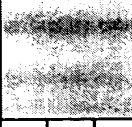
ESM-1 Fold Change of Expression in Various Tumors by Microarray Analysis												
Tumor ^a	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5	Patient 6	Patient 7	Patient 8	Patient 9	Patient 10	Patient 11	AVE
Breast	-1.20	-1.18	1.37	1.36	1.14	-1.09	-1.05	1.77	1.07	1.86		0.41
Colon	1.71	2.07	1.60	2.51	1.39	-1.05	1.82	1.08	2.27	1.51		1.49
Kidney	1.62	2.07	2.23	1.34	2.84	1.61	1.80	1.85	1.38	1.06		1.78
Lung	1.98	1.26	1.14	3.07	3.21	2.28	2.56	4.01	3.57	2.98	3.39	2.68
^a Each tumor type represents a different set of patients.												

FIGURE 6

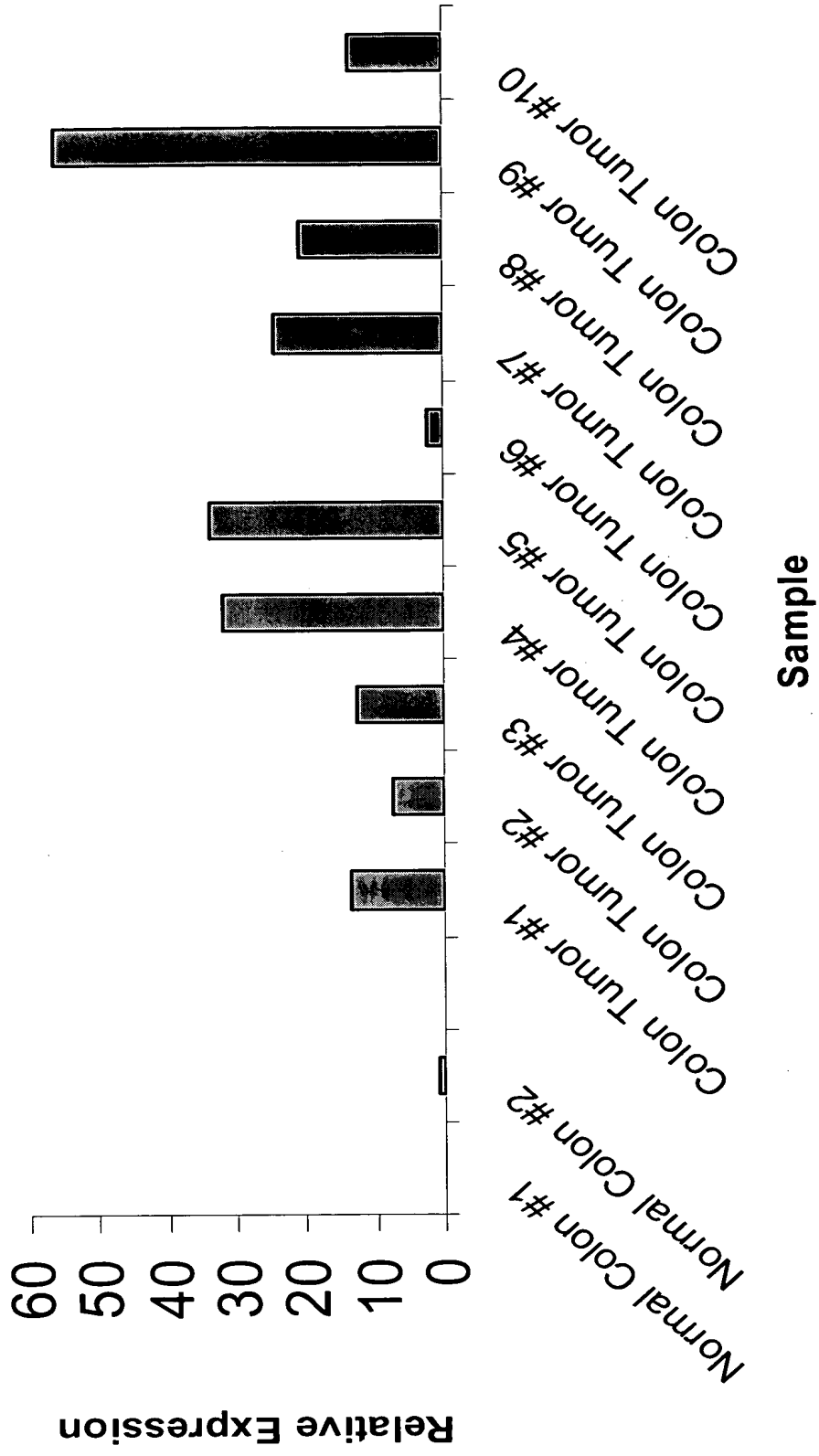


FIGURE 7

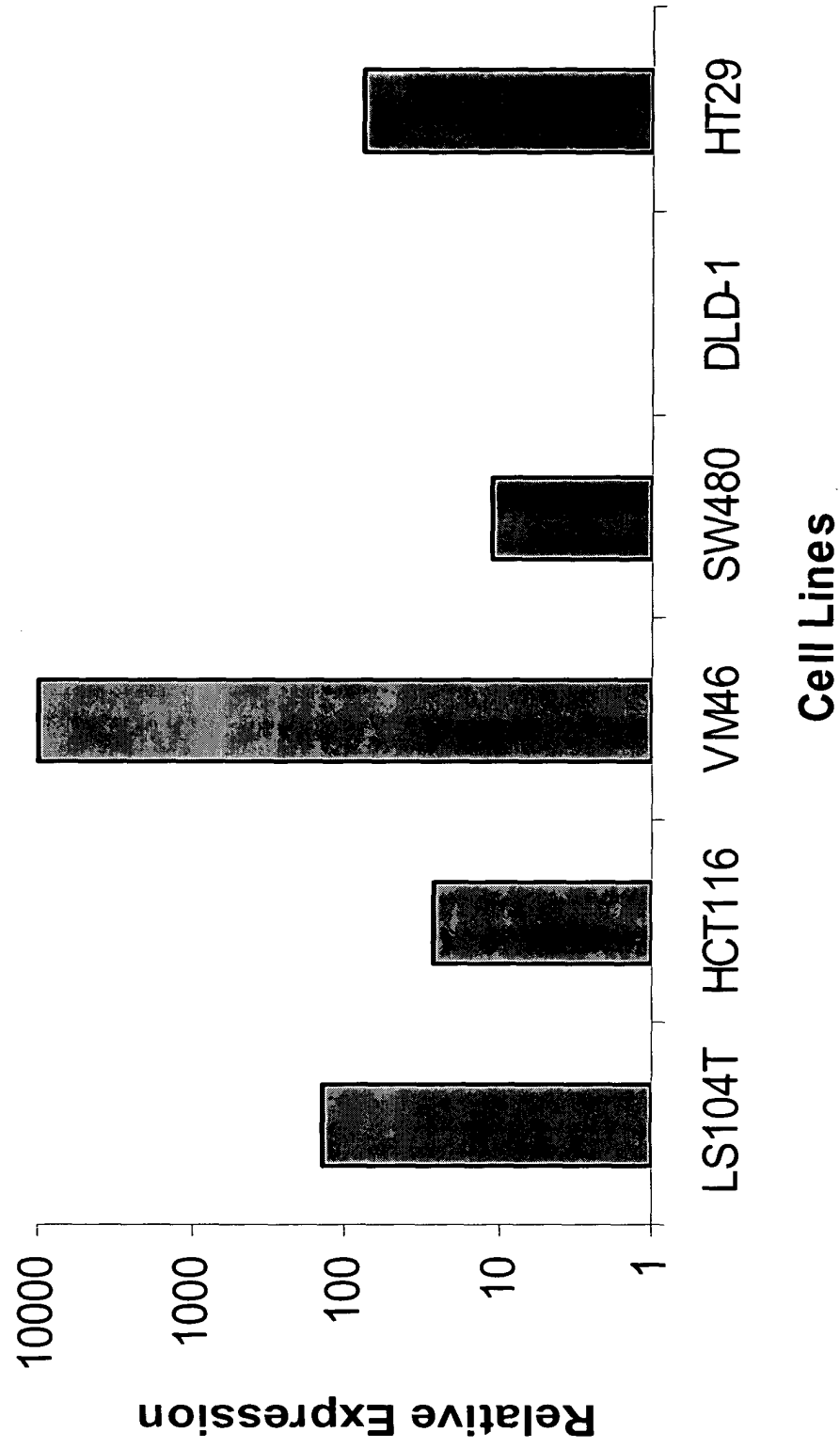


FIGURE 8

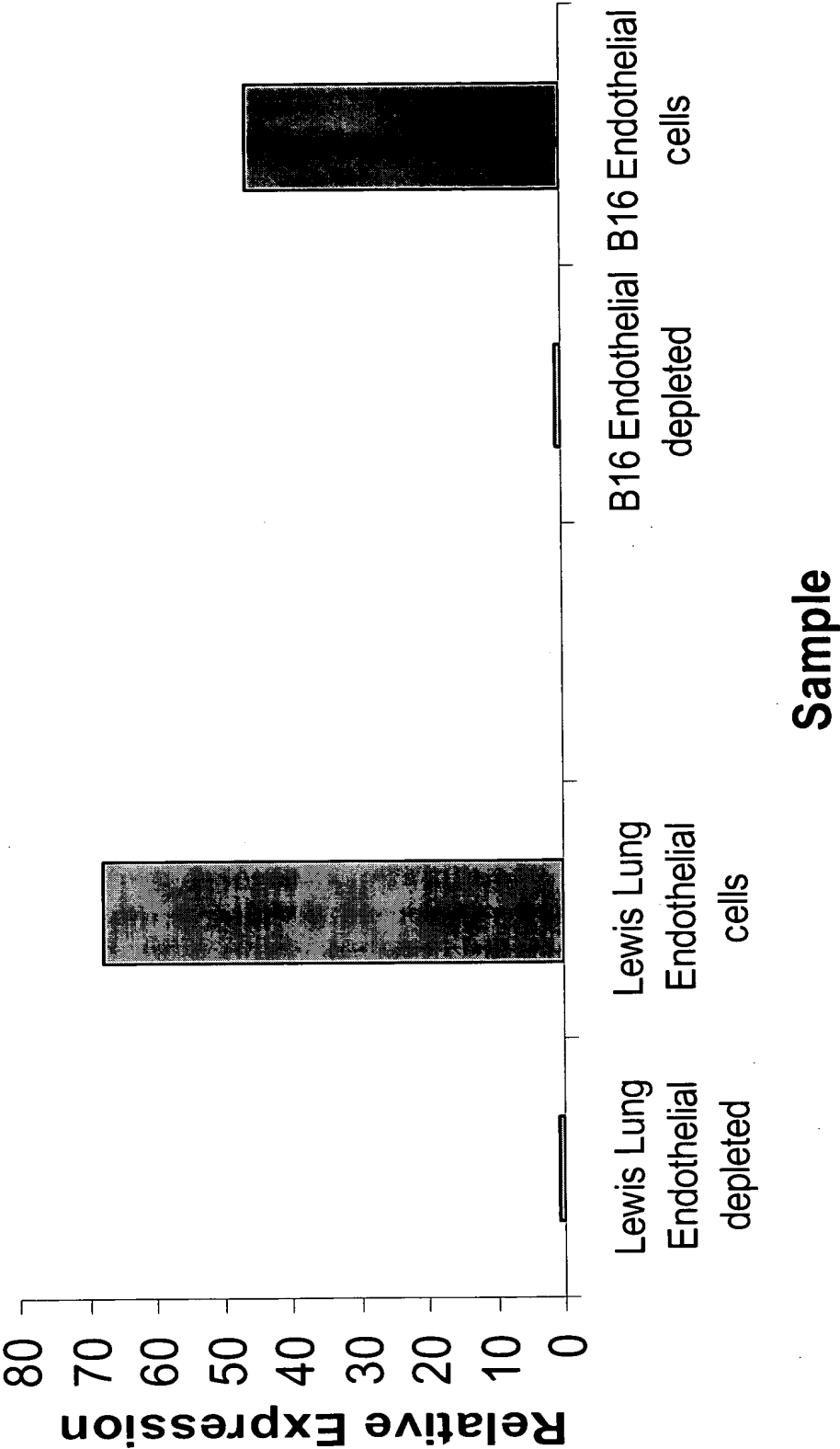
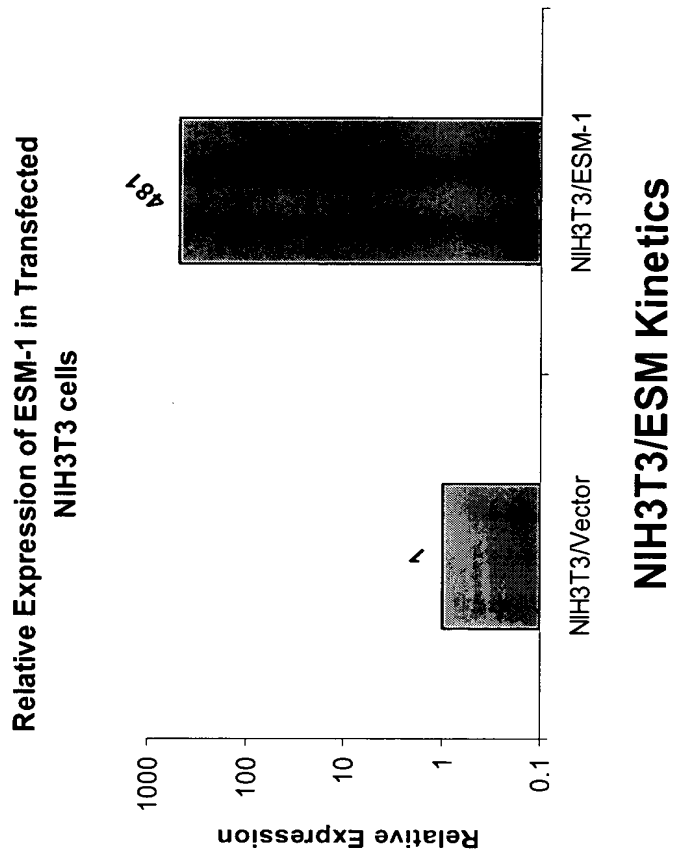


FIGURE 9

A



B

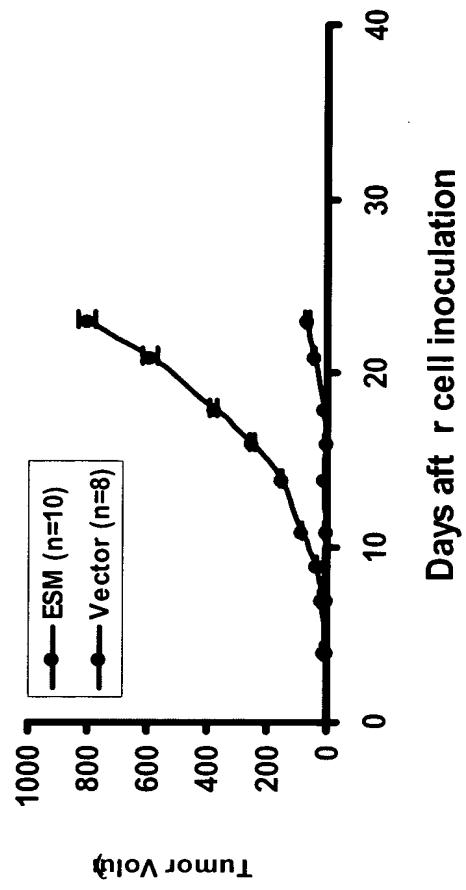


FIGURE 10

		<u>ESM-1 expression</u>	
		<u>number of samples (percentage)</u>	
<u>tumor</u>	breast	5	(9.6)
	colon	0	(0.0)
	kidney	16	(28.1)
	lung	4	(7.7)
	ovary	0	(0.0)
	prostate	1	(2.1)
<u>normal</u>	breast	0	(0.0)
	colon	0	(0.0)
	kidney	1	(6.3)
	lung	0	(0.0)
	ovary	1	(7.1)
	prostate	0	(0.0)

FIGURE 11

